

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-499
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Ford Motor Company 1992 model Otto-cycle engine is certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Gasoline

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
NFM05.8BSA5	5.8 (351)	Three-Way Catalyst Secondary Air Injection Exhaust Gas Recirculation Heated Oxygen Sensor Multipoint Electronic Fuel Injection

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake-horsepower-hour:

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.1	14.4	5.0

The following are the certification emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
NFM05.8BSA5	0.5	10.7	3.3

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et. seq.).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 30th day of July, 1991.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-10-499

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Manufacturer Ford Motor Company Engine Family NFM05.8BSA5 (N5.8A)
Evaporative Family HM and HA Engine Type V-8
Liters (CID) 5.8L (351)

ABBREVIATIONS:

<u>Ignition System</u>	<u>Exhaust Emissions Control System</u>	<u>Fuel System</u>
DLI-Distributorless Ignition	AIR-Secondary Air Injection	DI-Direct Injection (Diesel)
EI-Electronic Ignition	ECTS-Engine Coolant Temp Sensor	EIC-Electronic Injection Control (Diesel)
PCME-Powertrain Control Module	EGR-Exhaust Gas Recirculation	IC-Intercooler or Aftercooler
	EM-Engine Modification	IDI-Indirect Diesel Injection
	HO2S-Heated Oxygen Sensor	MPI-Multipoint Electronic Fuel Injection
	KS-Knock Sensor	SC-Supercharged
	MAP-Manifold Absolute Pressure Sensor	SMPI-Sequential Multipoint Electronic Fuel Injection
	OC-Oxidation Catalyst	TAA-Turbocharged, Air to Air (Diesel)
	O2S-Oxygen Sensor	TAW-Turbocharged, Air to Air to Water (Diesel)
<u>Special Features</u>	SABV-Secondary Air Bypass Valve	TBI-Throttle Body Electronic Fuel Injection
MIL-Malfunction Indicator Light	SASV-Secondary Air Switching Valve	
OBD-On Board Diagnostics	SPL-Smoke Puff Limiter	
	TOC-Trap Oxidizer: Continuous	
	TOP-Trap Oxidizer: Periodic	
	TPS-Throttle Position Sensor	
	TWC-Three Way Catalyst	
	TWC+OC-Three Way Catalyst Plus Oxidation Catalyst	
	WUOC-Warm Up Oxidation Catalyst	
	WUTWC-Warm Up Three Way Catalyst	

VEHICLE MODELS: E250/E350/Stripped or Cutaway
F250/F350

Engine: Front XXX Mid Rear
Drive: FWD RWD XXX 4WD Full Time 4WD Part Time XXX

Engine Family: N5.8A

Issue Date	6-24-91	20.17.02.00-1					
Revised							

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1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY DUTY ENGINES

E.O. # A-10-499

Manufacturer Ford Motor Company Engine Family NFM05.8BSA5 (N5.8A)

Liters (CID): 5.8L (351) Fuel Type: Gasoline Engine Type: V-8

Exhaust ECS & Special Features (incl. CARB, MPI, etc.) AIR/EGR/HO2S/MPI/TWC
(Use abbreviations per SAE J1930 Jun88)

Engine Model (Engine Code)	Rated HP @ RPM	Ign. System or PCME	Fuel System	EGR Valve	Catalyst
		Part No. -12A650-	Part No. -9F593-	Part No. -9F483-	Part No. -5E212-
1-75A-R00	210 @ 3800	F2TF-EB Alt. F2TB-EA	FOTE-CA	E8TE-BA <i>F2TE-EA</i>	E8TA-LA
1-76A-R00	210 @ 3800	F2TF-PB Alt. F2TF-PA	FOTE-CA	E8TE-BA <i>F2TE-EA</i>	E8TA-LA
1-76C-R00	210 @ 3800	F2TF-FB Alt. F2TF-FA	FOTE-CA	E8TE-BA <i>F2TE-EA</i>	E8TA-LA

Comments: See 20.17.02.00-1 for abbreviations and 20.17.02.00-4 for evaporative emission family identification.

Engine Family: N5.8A

Issue Date	6-24-91	20.17.02.00-2					
Revised	12-19-91						